

Work Order ID 95612

95612

Page 1

January 15, 2013 2:52:29 PM

Item ID: D3186-2M

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: SPACEPOD DOOR RH

Start Date: 1/31/13

Start Qty: 1.00

1

Cust Item ID:

Required Date: 1/31/13

Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

CL

Date: 13/01/15

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

NR1

Stop

NR2

Work Order	Description	Set Up/Run Hours	Tool ID	Lot Code	Accept Qty	Reject Qty	Reject Number	Disp. Stamp
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Draw Nbr	Revision Nbr
D3186	Rev E

100	PURCHASING	0.00
100		
Purchasing	Memo	0.00
Purchasing	Issue P/O: <i>18720</i>	
	Description: D3186-2MDoor	
	Supplier: Delastek	
	Conformity Certificate and Process sheet required	
	Ship 3 Items from Previous steps	

CL 13/01/15 ①

110	Receive & Inspect for Damage & Mat'l Certs	0.00
110		
Packaging	Memo	0.00
Packaging	Ensure a copy of certification of conformity and process sheet from Delastek is attached.	

143/4/17 ①

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

FAULT CATEGORY

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

95612

January 15, 2013 2:52:29 PM

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Item Name: SPACEPOD DOOR RH

Start Date: 1/31/13 **Start Qty:** 1.00 ***1***

Cust Item ID:

Required Date: 1/31/13 **Req'd Qty:** 1.00 *** 1 ***

Customer:

Reference:

Run Start *NR1*

Approvals: _____ **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Stop *NR2*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Operation Description

Set Up Run Hours

[illegible]

120

QC6- Inspect dimensions to drawing

0.00

120

0.00

QC

Memo

Quality Control

Check for void spot and pins.

DAS
16
9-89 1366/29

130

Identify as per dwg & Stock Location: Composites 0.00

0.00

130

Memo

0.00

Packaging

Packaging

140

QC21- Final Inspection - Work Order Release	0.00
---	------

0.00

140

Memo

0.00

QC

Quality Control

113-104

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
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<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
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		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

Picklist Print

January 15, 2013 2:52:29 PM

Page 1 / 1

Work Order ID: 95612

Parent Item: D3186-2M

Start Date: 1/31/13

Required Date: 1/31/13

Parent Item Name: SPACEPOD DOOR RH

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A New Issue 06-12-04 ec
IPP rev D rv D dwg 07.03.07 ec

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3186-2P Spacepod Door		Purchased	No			110	Each	0.0000	1	1		1/31/13	

NCR: Yes / No

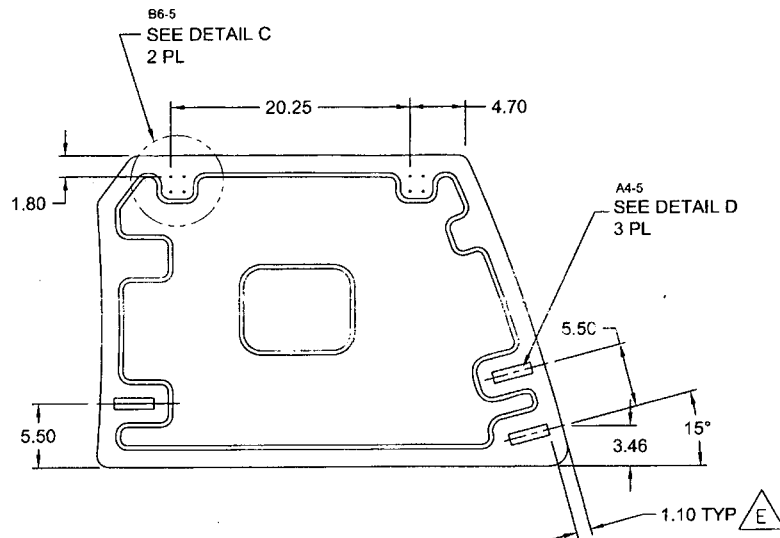
WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

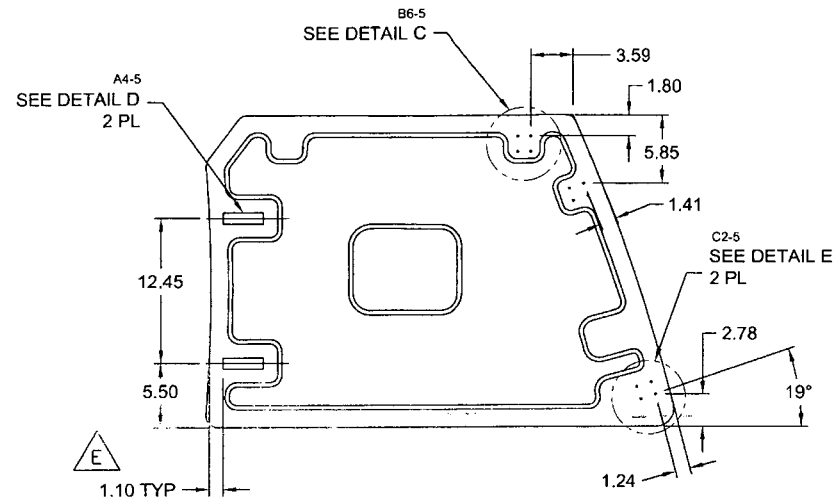
QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION <div style="display: flex; justify-content: space-around;"> <div style="text-align: right;"> Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> </div> <div style="text-align: right;"> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div style="text-align: right;"> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div style="text-align: right;"> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div style="text-align: right;"> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>							
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped. <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other		

8 7 6 5 4 3 2 1



D3186-1 SPACEPOD DOOR, LH
MAKE FROM D3186-1M



D3186-3 SPACEPOD DOOR, LH
MAKE FROM D3186-1M

RELEASED
2009-09-09

CL 13/01/15
W 10: 95612

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A

E	DRAWING UPDATED TO CURRENT STANDARDS. 1.10 WAS 0.98 (ZN B5-1, B4-1, B7-2, B1-2); R0.12 WAS 0.125 (ZN B5-5); REF PAR 09-026	RF	09.07.08
D	UPDATE DIMENSIONS	LE	07.02.22
C	REMOVED D0600-XXX LABELS	LE	06.12.13
B	DIMS UPDATED TO MATCH PRODUCT FOAM PATTERN UPDATED D3186-1M/2M/3/4 ADDED	LE	06.09.25
A	NEW ISSUE	CP	03.03.27
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	JP	DRAWING NO.	REV. E
MFG. APPR.	JP	D3186	SHEET 1 OF 5
APPROVED	JP	TITLE	SCALE
DE APPR.	JP	SPACEPOD DOOR	NTS
DATE	09.07.08	COPYRIGHT © 2003 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

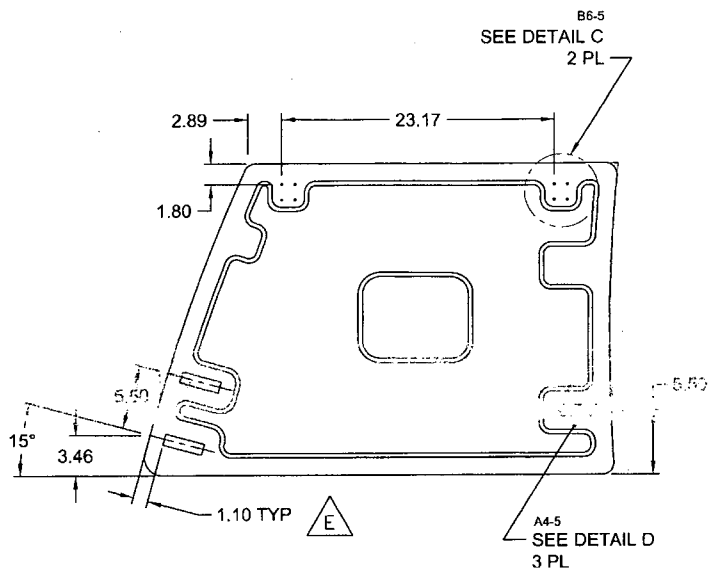
QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
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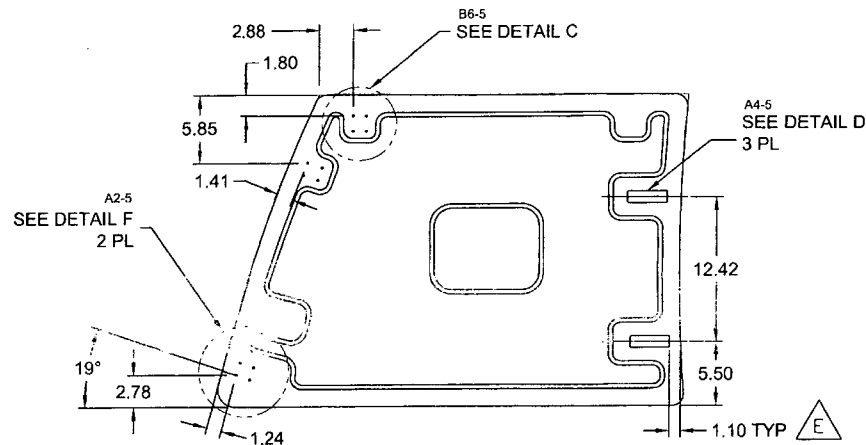
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other



D3186-2 SPACEPOD DOOR, RH
MAKE FROM D3186-2M



D3186-4 SPACEPOD DOOR, RH
MAKE FROM D3186-2M

RELEASED
2009-09-09

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A

DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO. D3186	REV. E SHEET 2 OF 5
MFG. APPR.	<i>[Signature]</i>	TITLE SPACEPOD DOOR	SCALE NTS
DE APPR.	<i>[Signature]</i>	DATE 09.07.08	

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WRITTEN PERMISSION FROM DART AEROSPACE LTD.

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

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QA Closed: _____ Date: _____

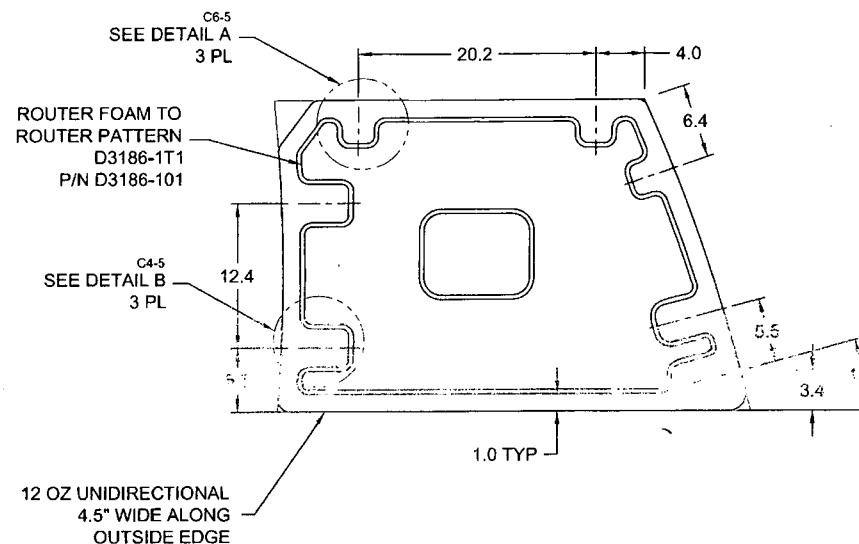
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Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

MAIN LAYUP
 9 OZ SATIN (9 SQ FEET)
 9 OZ SATIN (9 SQ FEET)
 FOAM
 9 OZ SATIN (9 SQ FEET)
 12 OZ UNIDIRECTIONAL
 9 OZ SATIN (9 SQ FEET)
 RESIN (35-45% BY WEIGHT)
 PEEL PLY



D3186-1M SPACEPOD DOOR AS MOLDED

NOTES:

1) MATERIAL:

RESIN = EPOCAST 50-A/9816 OR DERAKANE 470-36/411/510A40
 FOAM = 3/8" A500 CORE-CELL OR DIVINYCELL OR AIREX OR KLEGECELL
 FIBRE = 9.7 OZ 7781 WEAVE "S" GLASS ("9 OZ SATIN")
 12 OZ UNIDIRECTIONAL FIBERGLASS ("12 OZ UNIDIRECTIONAL")
 LAMINATE PER DART QSI 006 4.0
 LAMINATION SCHEDULE PER THIS DRAWING

2) FINISH: FINISH INSIDE/OUTSIDE WITH DUPONT HIGHBUILD GREY PRIMER 1144-S

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX

6) IDENTIFICATION: NONE

7) WEIGHT: 7.0 lbs

8) USE MOLD DT8005 FOR DOOR LAYUP

RELEASED
 2009-08-08

DESIGN	DS	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. E
MFG. APPR.	<i>[Signature]</i>	D3186	SHEET 3 OF 5
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SPACEPOD DOOR	NTS
DATE	09.07.08	<small>COPYRIGHT © 2003 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>	

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

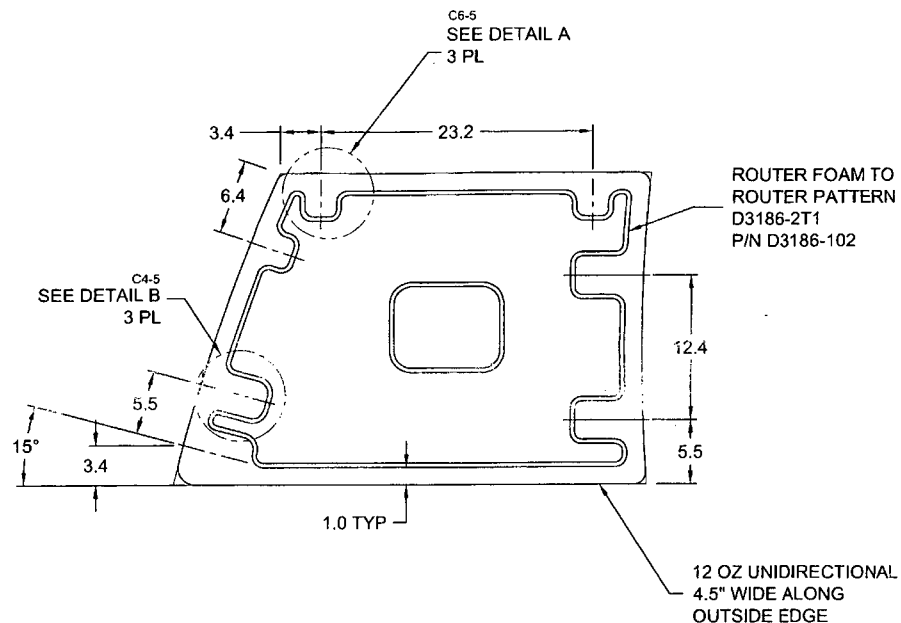
Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

FAULT CATEGORY

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

9 OZ SATIN (9 SQ FEET)
9 OZ SATIN (9 SQ FEET)
FOAM
9 OZ SATIN (9 SQ FEET)
12 OZ UNIDIRECTIONAL
9 OZ SATIN (9 SQ FEET)
RESIN (35-45% BY WEIGHT)
PEEL PLY



1) MATERIAL:

- RESIN = EPOCAST 50-A/9816 OR DERAKANE 470-36/411/510A40
FOAM = 3/8", A500 CORE-CELL OR DIVINYCELL OR AIREX OR KLEGECCELL
FIBRE = 9.7 OZ 7781 WEAVE "S" GLASS ("9 OZ SATIN")
12 OZ UNIDIRECTIONAL FIBERGLASS ("12 OZ UNIDIRECTIONAL")
LAMINATE PER DART QSI 006 4.0
LAMINATION SCHEDULE PER THIS DRAWING
- 2) FINISH: FINISH INSIDE/OUTSIDE WITH DUPONT HIGHBUILD GREY PRIMER 1144-S
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: NONE
7) WEIGHT: 7.0 lbs
8) USE MOLD DT8006 FOR DOOR LAYOUT

D3186-2M SPACEPOD DOOR AS MOLDED

RELEASED
2009-08-09

DESIGN	DS	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. E
MFG. APPR.		D3186	SHEET 4 OF 5
APPROVED		TITLE	SCALE
DE APPR.		SPACEPOD DOOR	NTS
DATE	09.07.08	COPYRIGHT © 2003 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE. IT MAY BE SUPPLIED IN THE EXPRESS LOCATION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COMMUNICATED TO ANY OTHER PERSONS WITHOUT THE WRITTEN CONSENT OF DART AEROSPACE LTD.	

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

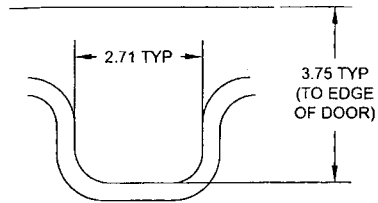
QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

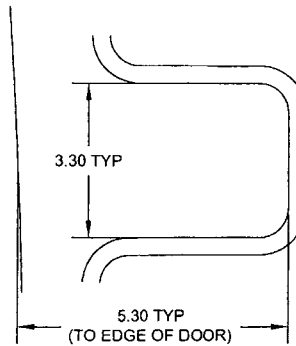
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY

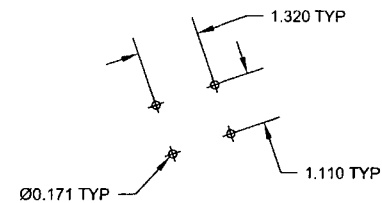
Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other



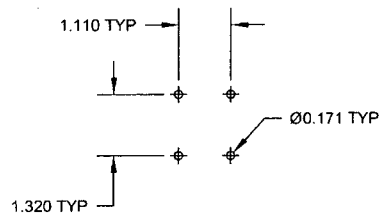
DETAIL A D6-3
SCALE 4X D4-4



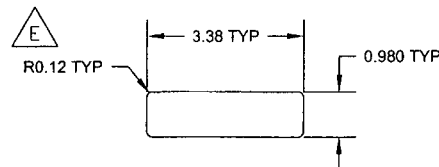
DETAIL B C6-3
SCALE 4X C6-4



DETAIL E C1-1
SCALE 4X

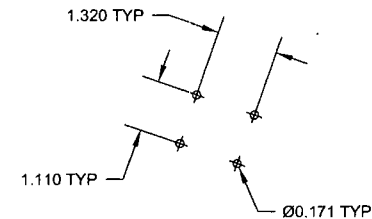


DETAIL C D7-1
SCALE 4X D3-1
D6-2
D3-2



NOTE: ENSURE THAT CUTOUT IS PERPENDICULAR TO EDGE OF DOOR

DETAIL D C5-1
SCALE 4X D4-1
B6-2
C2-2



DETAIL F C4-2
SCALE 4X

RELEASED
2009-09-09

DESIGN	DS	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. E
MFG. APPR.		D3186	SHEET 5 OF 5
APPROVED		TITLE	SCALE
DE APPR.		SPACEPOD DOOR	NTS
DATE	09.07.08	COPYRIGHT © 2003 BY DART AEROSPACE LTD	
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NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION <div style="display: flex; justify-content: space-around;"> <div> Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> </div> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>
--	--

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped. <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions
--	---	---

☐ Ovalized
☐ Over/Under tolerance
☐ Part Incorrect
☐ Part Lost/Missing
☐ Part Moved
☐ Positioned Wrong
☐ Power Loss/Surge

☐ Pressure/Forced
☐ Temperature/Cure
☐ Weld
☐ Wrong Stock Pulled
☐ Other



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18720

Purchase Order Date 1/04/13
PO Print Date 1/15/13

Page Number 2 of 2

Order From : VU-DEL003

DELASTEK INC
2699 5E AVENUE, LOCAL C.P 10100

GRAND-MERE, QC G9T 5K7
CA

Contact Name
Vendor Phone
Vendor Fax
Vendor Account Nbr

819 533 5788
819 533 3494

Buyer
Requisition Nbr
Tax Resale Nbr
Terms
Currency
FOB

Brigitte Golden
10127-2607
Net 30
USD
Destination-Collect

Special In

AS PER DWG D3188 REV. F
B95145

D3186-2R

Spacepod Door

1/31/13
Yes

1.00 FedEx Overnigh \$750.0000
Each

\$750.00

Special Inst:

AS PER DWG D3186 REV. E
B95612

D3188-2R

Spacepod Body

1/31/13
Yes

1.00 FedEx Overnigh \$2,177.0000
Each

\$2,177.00

Special Inst:

AS PER DWG D3188 REV. F
B95611

PO Total:

\$8,781.00

CERTIFICATE OF CONFORMITY
REQ'D UPON DELIVERY

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

Change Nbr:

3

Change Date: 1/15/13

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required - YES NO



DELASTEK Inc.
2699 5^e Avenue
Local 14, C.P. 10100
Grand-Mère, Québec G9T 5K7
Canada
Tel.: (819) 533-5788
Fax: (819) 533-3494

PACKING SLIP

CERTIFICATE OF COMPLIANCE

Invoice No.	48387
Customer No.	DART US

Bill To

DART AEROSPACE LTD
1270, Aberdeen Street
Hawksbury, Ontario K6A 1K7
Canada

Telephone : 613-632-5200
Contact : Linda Lacelle

Ship To

DART AEROSPACE LTD
1270, Aberdeen Street
Hawksbury, Ontario K6A 1K7
Canada

Telephone : 613-632-5200
Contact : Linda Lacelle

Ship Date	Order Date	Our SO.#	Ordered by	Your PO#	Terms
13-06-2013	22-01-2013	22731	Brigitte Golden	18720	Net 30 days USA
Ship Via	F.O.B.	Salesperson	GST/PST		
FEDEX P1 Collect	Point de départ	Mathieu Doucet, ext.690			
Order Qty	B.O. Qty	Current Ship	Item number	Description	
1	0	1	DKC134-0071	Line 4 N° D3188-2M, Spacepod Body RH U of M: Chaque B95145 Dwg. D3188 Rév.: F Serial # Lot # 48900 48900	
1	0	1	DKC134-0060	Line 5 N° D3186-2M Spacepod Door RH B95612 U of M: Chaque Dwg. D3186 Rév.: E Serial # Lot # 51407 51407	

It is hereby certified that all materials, process and finished items were controlled and tested in accordance with the requirements of the purchase order and applicable specifications. All such records are on file at our plant and available for review upon request

Accepted by:

Quality department

AQ-357

☐ Cust. ☐ Adm. ☐ Quality ☐ Ship.

Date: Lundi, 2013-04-22 11:53:19
Utilisateur: Stéphane Lessard

Feuille de Procédé



Client : DART US DART AEROSPACE	Nom Dessin : SPACEPOD DOOR RH
Numéro Job : 51407	Numéro Article : DKC134-0060
Numéro : 3769	Numéro Dessin : --
Numéro B.A. :	Projet Numéro : DK-362
Cette fois : 2013-04-22 No. :	Révision dessin :
Prsht Rev. : NC	Matériel : 7781 & 411-350
Prem. fois : - - Type :	Date Dûe : 2013-04-29 Qté: 1 Ud UNITE
Job précédente : 51021	

Écrit par : _____

Vérifié & Approuvé par : _____

Commentaires : N° de dessin: D3186-2M rev. E



E.O.: N/A

Feuille de Procédé Rév.: 03 AMB0349 remplacé par
AMB0511 (réf. RFC #226)

Formulaire d'inspection: N/A

Produit additionnel

Numéro Job:



# Séq.:	Machine ou	Description :
---------	------------	---------------

1.0	AAC1816	N° 83634, Frekote Loctite Wolo
-----	---------	--------------------------------

Comment Qty.: 0.050 UNITE(s)/Unit Total: 0.050 UNITE(s)
N° 83634, Frekote Loctite Wolo N° de Lot: N/A

2.0	PRÉPARATION	Préparation du moule
-----	-------------	----------------------



Comment Setup: 0.00Hrs/ Run: 5.0000Min Total Run : 0.0833Hrs

Faire la préparation du moule N° DT 8006 selon IG 0009.

Date: 24/04/13 Sceau: 4435 GT

3.0	AAC1885	Tissu à délaminer Release ply B
-----	---------	---------------------------------

Comment Qty.: 3.28 VERGE(s)/Unit Total: 3.28 VERGE(s)
Tissu à délaminer Release ply B # de Lot: N/A

4.0	AAC1887	Wrightlon 5200 Bleu P3
-----	---------	------------------------

Comment Qty.: 3.59 VERGE(s)/Unit Total: 3.59 VERGE(s)
Wrightlon 5200 Bleu P3 # de Lot: N/A

5.0	AC0885	Feutre de drainage N° Airweave N 10
-----	--------	-------------------------------------

Comment Qty.: 3.00 VERGE(s)/Unit Total: 3.00 VERGE(s)

Date: Lundi, 2013-04-22 11:53:19

Utilisateur: Stéphane Lessard

Feuille de Procédé

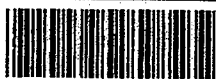
Client: DART US DART AEROSPACE

Nom Dessin: SPACEPOD DOOR RH

Numéro Job: 51407

Numéro DKC134-0060

Numéro Job:



Séq.:

Machine ou Opération:

Description :

6.0

AC0943

Stretchlon 200 poche à vide Vert

Comment Qty.: 3.00 VERGE(s)/Unit Total : 3.00 VERGE(s)

7.0

AMB0214

9.7 oz Weave "S" glass #FG-778150-125Y Volan Finish

Comment Qty.: 4.50 VERGE(s)/Unit Total : 4.50 VERGE(s)

9.7 oz Weave "S" glass #FG-778150-125Y Volan Finish

N° de Lot:

1-39576-1

8.0

AC0886

Ruban à gommer jaune #: T/AT-200Y

Comment Qty.: 2.2500 ROULEAU(s)/Unit Total : 2.2500 ROULEAU(s)

9.0

AMB0511

N° TG-13-U, Fiberglass 13 oz

Comment Qty.: 1.00 VERGE(s)/Unit Total : 1.00 VERGE(s)

N° TG-13-U, Fiberglass 13 oz

N° de Lot:

1-36302-1

10.0

PREP-GENERAL

Préparation du matériel



Comment Setup: 0.00Hrs/ Run: 30.0000Min Total Run : 0.5000Hrs

Tailler le matériel selon les différents patrons de découpe.

Appliquer le ruban jaune tout le tour du stretchlon 200 en laissant le papier sur le coté non en contact avec le sac à vide.

Afin d'accélérer le processus de taillage, tailler les plis de 9.7 oz. tous en même temps en les superposants les uns sur les autres.

Date: 24/04/13

Sceau: 4440 CS

11.0

AMB0286

Catalyst N° DDM-9

Comment Qty.: 0.0080 GALLON(s)/Unit Total : 0.0080 GALLON(s)

Catalyst N° DDM-9

N° de Lot:

1-27829-1

12.0

AMB0212

Résine (411B7530) 411-350 promo. 75min.

Comment Qty.: 0.500 LITRE(s)/Unit Total : 0.500 LITRE(s)

Résine (411B7530) 411-350 promo. 75min.

N° de Lot:

1-40544-1

13.0

PREP-GENERAL

Préparation du matériel



Comment Setup: 0.00Hrs/ Run: 5.0000Min Total Run : 0.0833Hrs

Faire la préparation de la résine selon les quantités requises, mix ratio 1.5% catalyst par quantité de résine.

Date: 24/04/13

Sceau:



4435 G.T

Date: Lundi, 2013-04-22 11:53:19

Utilisateur: Stéphane Lessard

Feuille de Procédé

Client: DART US DART AEROSPACE

Nom Dessin: SPACEPOD DOOR RH

Numéro Job: 51407

Numéro DKC134-0060

Numéro Job:



Séq.:

Machine ou Opération:

Description :

14.0

LAMINAGE

Faire le laminage



Comment Setup: 0.00Hrs/ Run: 15.0000Min Total Run : 0.2500Hrs

À l'aide d'un rouleau de 2" dia. appliquer une couche de résine sur le moule et ensuite imbiber un pli de tissu 9.7 oz.

Date: 24/04/13 Sceau:



4435 G.T

15.0

BAGGING

Faire le bagging sur la pièce



Comment Setup: 0.00Hrs/ Run: 10.0000Min Total Run : 0.1667Hrs

Faire la poche à vide selon IG 0012,

Laisser sécher pendant 4 heures minimum.

Heure début Curing: 3:15

Heure Fin Curing: 8:00 HRS AM

Date: 24/04/13 Sceau:



4435 G.T

16.0

AMB0286

Catalyst N° DDM-9

Comment Qty.: 0.0120 GALLON(s)/Unit Total: 0.0120 GALLON(s)

Catalyst N° DDM-9

N° de Lot: 1-27829-1

17.0

AMB0212

Résine (411B7530) 411-350 promo. 75min.

Comment Qty.: 0.300 LITRE(s)/Unit Total: 0.300 LITRE(s)

Résine (411B7530) 411-350 promo. 75min

N° de Lot: 1-40544-1

18.0

PREP-GENERAL

Préparation du matériel



Comment Setup: 0.00Hrs/ Run: 5.0000Min Total Run : 0.0833Hrs

Faire la préparation de la résine selon les quantités requises, mix ratio 1.5% catalyst par quantité de résine et imbiber toutes les surfaces du Foam Core selon IG0105.

Date: 25-04-13 Sceau:

4435 G.T

19.0

DKC134-0057

Foam Core N° D3186-102 (Porte D3186-2)






Comment Qty.: 1 UNITE(s)/Unit Total: 1 UNITE(s)

Foam Core N° D3186-102 (Porte D3186-2)

N° de Job: 51587

Date: Lundi, 2013-04-22 11:53:19
Utilisateur: Stéphane Lessard

Feuille de Procédé

Client: DART US DART AEROSPACE		Nom Dessin: SPACEPOD DOOR RH	
Numéro Job: 51407		Numéro DKC134-0060	
Numéro Job:			
# Séq.:	Machine ou Opération:	Description :	
20.0	AAC1611	Polybond B46F	
Comment Qty.: 0.090 KIT(s)/Unit Total: 0.090 KIT(s) Polybond B46F N° de Lot: <u>1-38189-1</u>			
21.0	ASSEMBLAGE	Assemblage mécanique	
			
Comment Setup: 0.00Hrs/ Run: 15.0000Min Total Run : 0.2500Hrs			
<p>Retirez le bagging.</p> <p>Pour aider au positionnement de 13 oz., positionner le gabarit de trimage dans le moule et tracer son contour sur le 9 oz. Retirez le gabarit de trimage.</p> <p>Positionner le foam core à l'aide du gabarit prévu à cet effet et tracer le contour sur le 9 oz. (Vous devriez maintenant avoir 2 contours de tracé sur le 9 oz.)</p> <p>Appliquer une couche de Polybond B64F à l'endos du Foam Core N° DKC134-0057 et positionner le foam Core sur le moule selon le dessin, et selon les lignes de positionnement prévues à cet effet.</p> <p>Date: <u>26-04-13</u> Sceau: <u>4433 MM</u></p>			
22.0	BAGGING	Faire le bagging sur la pièce	
			
Comment Setup: 0.00Hrs/ Run: 10.0000Min Total Run : 0.1667Hrs			
<p>Faire la poche à vide selon IG 0012.</p> <p>Retirer le bagging avant la fin de la polymérisation (entre 1h et 1h30) afin d'enlever le surplus de Polybond.</p> <p>Heure début Curing: <u>3:00h</u> Heure Fin Curing: <u>4:15</u></p> <p>Date: <u>26-04-13</u> sceau: <u>4433 MM</u></p>			
23.0	AMB0286	Catalyst N° DDM-9	
Comment Qty.: 0.0400 GALLON(s)/Unit Total: 0.0400 GALLON(s) Catalyst N° DDM-9 N° de Lot: <u>1-27829-1</u>			
24.0	AMB0212	Résine (411B7530) 411-350 promo. 75min.	
Comment Qty.: 1.000 LITRE(s)/Unit Total: 1.000 LITRE(s) Résine (411B7530) 411-350 promo. 75min N° de Lot: <u>1-40544-1</u>			

Date: Lundi, 2013-04-22 11:53:19

Utilisateur: Stéphane Lessard

Feuille de Procédé

Client: DART US DART AEROSPACE

Nom Dessin: SPACEPOD DOOR RH

Numéro Job: 51407

Numéro DKC134-0060

Numéro Job:



Séq.:

Machine ou Opération:

Description :

25.0

PREP-GÉNÉRAL

Préparation du matériel



Comment Setup: 0.00Hrs/ Run: 5.0000Min Total Run : 0.0833Hrs

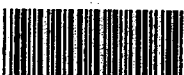
Faire la préparation de la résine selon les quantités requises, mix ratio 1.5% catalyst par quantité de résine.

Date: 29-04-13 Sceau: 4435

26.0

LAMINAGE

Faire le laminage



Comment Setup: 0.00Hrs/ Run: 30.0000Min Total Run : 0.5000Hrs

Faire le laminage d'un pli de 9.7 oz.

Faire le laminage d'un pli de 13 oz. tout le tour de la porte.

Faire le laminage d'un pli de 9.7 oz.

Date: 24-04-13 Sceau: 4435

27.0

BAGGING

Faire le bagging sur la pièce



Comment Setup: 0.00Hrs/ Run: 10.0000Min Total Run : 0.1667Hrs

Faire la poche à vide selon IG 0012.

Laissez Sécher 4 heures minimum

Heure début Curing: 13h00

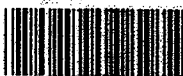
Heure Fin Curing: 8:00

Date: 24-04-13 sceau:

28.0

DÉMOULAGE

Démoulage de la pièce



Comment Setup: 0.00Hrs/ Run: 5.0000Min Total Run : 0.0833Hrs










Démouler la pièce en faisant bien attention aux coins & Edges.

Sabler la surfaces de la pièce qui était en contact avec le moule afin d'éliminer le fini lisse de celui-ci.

Date: 30/04/13 Sceau: 44356.T

Date: Lundi, 2013-04-22 11:53:19
Utilisateur: Stéphane Lessard

Feuille de Procédé

Client: DART US DART AEROSPACE		Nom Dessin: SPACEPOD DOOR RH	
Numéro Job: 51407		Numéro DKC134-0060	
Numéro Job:			
# Séq.:	Machine ou Opération:	Description :	
29.0	TRIMAGE	Trimage	
			
Comment Setup: 0.00Hrs/ Run: 30.0000Min Total Run : 0.5000Hrs			
Trimer le contour de la pièce à l'aide du gabarit de trimage prévu à cet effet.			
Date: <u>30/04/13</u> Sceau: <u>4435 G.T</u>			
30.0	AAC1021	Dupont Primer N° 7704S	
Comment Qty.: 0.1400 UNITE(s)/Unit Total : 0.1400 UNITE(s)			
Dupont Primer N° 7704S N° de Lot: <u>1-39123-1</u>			
31.0	AAC1101	N° 7775S, Dupont Activator - Reducer Chromabase	
Comment Qty.: 0.0283 UNITE(s)/Unit Total : 0.0283 UNITE(s)			
N° 7775S, Dupont Activator - Reducer Chromabase N° de Lot: <u>1-39302-3</u>			
32.0	PRIMER	Application primer	
			
Comment Setup: 0.00Hrs/ Run: 30.0000Min Total Run : 0.5000Hrs			
Appliquer une couche de primer selon IG 0008.			
Date: <u>30 avril 2013</u> Sceau:  # de fiche de mélange: <u>N/A</u>			
33.0	AAC1492	N° P-15-3, Adtech Micro Ultra Filler	
Comment Qty.: 0.010 GALLON(s)/Unit Total : 0.010 GALLON(s)			
N° P-15-3, Adtech Micro Ultra Filler N° de Lot: <u>1-48986-1</u>			
34.0	FINITION	Finition Générale	
			
Comment Setup: 0.00Hrs/ Run: 0.0000Min Total Run : 0.0000Hrs			
Faire les réparations de finition si nécessaire à l'aide du "Filler" P15-3.			
Faire un léger sablage (Grit 220) sur toutes les surfaces.			
Date: <u>6/05/13</u> sceau: 			
35.0	AAC1021	Dupont Primer N° 7704S	
Comment Qty.: 0.1400 UNITE(s)/Unit Total : 0.1400 UNITE(s)			
Dupont Primer N° 7704S N° de Lot: <u>1-39123-1</u>			

Date: Lundi, 2013-04-22 11:53:19

Utilisateur: Stéphane Lessard

Feuille de Procédé

Client: DART US DART AEROSPACE

Nom Dessin: SPACEPOD DOOR RH

Numéro Job: 51407

Numéro DKC134-0060

Numéro Job:



Séq.:

Machine ou Opération:

Description :

36.0

AAC1101

N° 7775S, Dupont Activator - Reducer Chromabase

Comment Qty.: 0.0300 UNITE(s)/Unit Total : 0.0300 UNITE(s)

N° 7775S, Dupont Activator - Reducer Chromabase

N° de Lot: 1-37302-3

37.0

PRIMER

Application primer



Comment Setup: 0.00Hrs/ Run: 0.0000Min Total Run : 0.0000Hrs

Appliquer une couche de primer selon IG 0008.

Date: 15 mai 2013

Date: 17 mai 2013 Sceau:

35

de Fiche de mélange:

N/A 2 cote -
N/A 1 cote

38.0

INSPEC FINAL

Inspection finale



Comment Setup: 0.00Hrs/ Run: 5.0000Min Total Run : 0.0833Hrs

Faire l'inspection finale par la qualité selon le dessin.

Date: 17 mai 13 Sceau:



39.0

EMBAL / ENTREPO

Emballage & Entreposage



Comment Setup: 0.00Hrs/ Run: 0.0000Min Total Run : 0.0000Hrs

Emballer et entreposer selon IG 0057.

Date: 22-5-13 Sceau: 4951 SM